

ABSTRACT

Mixture of particles comprising a non-conducting or semi-conducting nucleus covered with a hybrid conductor coating and hybrid conductor chains located between the particles of the mixture to constitute a conductivity network, that is prepared by mechanical crushing. Due to a very good conductivity of the network, a low resistivity, a very good capacity under elevated current and/or a good density of energy, these mixtures of particles are advantageously incorporated in anodes and cathodes of electrochemical generators, resulting in highly performing electrochemical systems.